	<u>CLAIMS</u>
1.	A computer system adapted to play audio files, said computer system comprising:
	a system CPU;
	memory;
	at least one drive comprising compressed audio data, said compressed
	audio data residing in one or more audio files;
	a play list software program for selecting and storing a play list
	comprising one or more of said audio files;
	a first operating system adapted to control at least said system CPU and
	said memory; and
	a second operating system, said second operating system being stored in
	BIOS and adapted to retrieve said play list and cause said drive to read at least one said audio
	file of said play list, to cause said system CPU to decompress the compressed audio data of
	said file and provide decompressed audio data, and to cause said decompressed audio data to
	be stored in said memory.
2.	A computer system adapted to play audio files, said computer system comprising:
	a system CPU;
	memory;
	at least one drive comprising compressed audio data;
	a first operating system adapted to control at least said system CPU and
	said memory; and
	a second operating system, said second operating system being stored in

BIOS and adapted to cause said system CPU to decompress said compressed audio data and

1	store said decompr	essed audio data in said memory.
2	3. A comp	uter system adapted to play audio files, said computer system comprising:
3		a system CPU;
4		memory;
5		at least one drive comprising compressed audio data; and
6		an operating system stored in BIOS, said operating system being adapted
7	to cause said sy	ystem CPU to decompress said compressed audio data and store said
8	compressed au	dio data in said memory.
9	4. A comp	outer system adapted to play audio files, said computer system comprising:
10		compressed audio data;
11		a system CPU; and
12		an operating system stored in BIOS, said operating system being adapted
13	to cause said s	ystem CPU to decompress said compressed audio data.
14	5. A com	puter system adapted to play audio files, said computer system comprising:
15		compressed audio data;
16		a system CPU;
17		an audio controller; and
18		an operating system stored in BIOS, said operating system controlling said
19	audio controll	er and said system CPU, so as to cause said system CPU to decompress said
20	compressed a	udio data.
21	6. A com	aputer system adapted to play audio files, said computer system comprising:
22		compressed audio data;
23		a system CPU;

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1		an audio controller;
2		a first operating system adapted to control at least said system CPU; and
3		a second operating system stored in BIOS, said second operating system
4		controlling said audio controller and said system CPU, so as to cause said system CPU to
5		decompress said compressed audio data.
6	7.	A computer system adapted to play audio files, said computer system comprising:
7		a system CPU;
8		memory;
9		at least one drive comprising compressed audio data, said compressed
10		audio data residing in one or more audio files;
11		a first operating system adapted to control at least said system CPU and
12		said memory;
13		a play list software program executable under said first operating system,
14		said play list software program being adapted to permit selection and storage of a play list
15		comprising one or more of said audio files; and
16		a second operating system, said second operating system being stored in
17		BIOS and adapted to retrieve said play list and cause said drive to read at least one said audio
18		file of said play list, to cause said system CPU to decompress the compressed audio data of
19		said file and provide decompressed audio data, and to cause said decompressed audio data to
20		be stored in said memory.
21	8.	A computer system adapted to play audio files, said computer system comprising:
22		at least one drive comprising audio data, said audio data residing in one or
23		more audio files;

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1	a system CPU;
2	memory;
3	a first operating system adapted to control at least said system CPU and
4	said memory;
5	a play list software program executable under said first operating system,
6	said play list software program being adapted to permit selection and storage of a play list
7	comprising one or more of said audio files; and
8	a second operating system, said second operating system being stored in
9	BIOS and adapted to retrieve said play list and cause said drive to read at least one said audio
10	file of said play list, and to play said at least one said audio file of said play list.
11	9. A computer system adapted to play audio files, said computer system comprising:
12	a drive comprising at least one audio file;
13	an audio controller; and
14	an operating system stored in BIOS, said operating system controlling said audio
15	controller, so as to cause said audio controller to play said at least one audio file.
16	10. A computer system adapted to play audio files, said computer system comprising:
17	a system CPU;
18	a drive comprising at least one compressed audio file; and
19	an operating system stored in BIOS, said operating system controlling said system
20	CPU, so as to cause said system CPU to decompress said at least one audio file.
21	11. A method of playing audio files on a computer system, said method comprising:
22	booting a first operating system;
23	creating and storing a play list comprising a list of compressed audio files residing o

Ţ	one of more drives of a computer system having at least a drive, a CPO, and a memory,
2	terminating said first operating system;
3	booting a second operating system upon activation by a switch;
4	reading said play list;
5	reading said compressed audio files from said drive based on said play list;
6	providing said compressed audio data to said CPU for decompressing the data of said
7	compressed audio file into decompressed audio data;
8	storing said decompressed audio data in said memory; and
9	retrieving said decompressed audio data from said memory for playing.
10	12. A method of playing audio files on a computer system, said method comprising:
11	booting a first operating system;
12	creating and storing a play list comprising a list of compressed audio files residing on
13	one or more drives of a computer system having at least a drive, a CPU, and a memory;
14	terminating said first operating system;
15	booting a second operating system;
16	reading said play list;
17	reading said compressed audio files from said drive based on said play list;
18	providing said compressed audio data to said CPU for decompressing the data of said
19	compressed audio file into decompressed audio data;
20	storing said decompressed audio data in said memory; and
21	retrieving said decompressed audio data from said memory for playing.
22	13. A computer system adapted to play audio files, said computer system comprising:
23	a system CPU;

1		memory;
2		at least one drive comprising compressed audio data;
3		a first operating system adapted to control at least said system CPU and
4	said memory;	
5		a second operating system, said second operating system being adapted to
6	cause said system CF	U to decompress said compressed audio data and store said decompressed
7	audio data in said me	mory;
8		a first switch, the activation of said first switch causing said first operating
9	system to boot; and	
10		a second switch, the activation of said second switch causing said second
11	operating system to b	poot.
12	14. A comput	er system adapted to play audio files, said computer system comprising:
13		a system CPU;
14		memory;
15		a first operating system adapted to control at least said system CPU and
16	said memory;	
17		at least one drive comprising compressed audio data;
18		a second operating system, said second operating system being adapted to
19	cause said system	CPU to decompress said compressed audio data and store said compressed
20	audio data in said	memory; and
21		a switch, the activation of said switch causing said second operating
22	system to boot.	
23	15. A comput	er system adapted to play audio files, said computer system comprising:

	1		compressed audio data;
	2		a system CPU;
	3		a first operating system adapted to control at least said system CPU and
	4	said memory;	
	5		a second operating system, said second operating system being adapted to
Hard Mark to the reduce order order order	6	cause said system	CPU to decompress said compressed audio data; and
	7		a switch, the activation of said switch causing said second operating
	8	system to boot ar	d cause said system CPU to decompress said compressed audio data.
	9	16. A comput	er system adapted to play audio files, said computer system comprising:
	10		compressed audio data;
	11		a system CPU;
	12		an audio controller;
	13		a first operating system adapted to control at least said system CPU and
<b>3</b> -2:	14	said memory;	
	15		a second operating system, said second operating system controlling said
	16	audio controller	and said system CPU, so as to cause said system CPU to decompress said
	17	compressed audi	o data; and
	18		a switch, the activation of said switch causing said second operating
	19	system to boot.	
	20	17. A compu	tter system adapted to play audio files, said computer system comprising:
	21		compressed audio data;
	22		a system CPU;
	23		an audio controller;

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1	a first operating system adapted to control at least said system CPU;
2	a second operating system, said second operating system controlling said
3	audio controller and said system CPU, so as to cause said system CPU to decompress said
4	compressed audio data; and
5	a switch, the activation of said switch causing said second operating
6	system to boot.
7	18. A computer system adapted to play audio files, said computer system comprising:
8	a drive comprising at least one audio file;
9	an audio controller;
10	an operating system, said operating system being stored in BIOS and adapted to
11	control said audio controller, so as to cause said audio controller to play said at least one
12	audio file; and
13	a switch, the activation of said switch causing said operating system to boot.
14	19. A computer system adapted to play audio files, said computer system comprising:
15	a system CPU;
16	a drive comprising at least one compressed audio file; and
17	an operating system, said operating system being stored in BIOS and adapted to
18	control said system CPU, so as to cause said system CPU to decompress said at least one
19	audio file; and
20	a switch, the activation of said switch causing said operating system to boot.
21	20. A computer system adapted to play audio files, said computer system comprising:
22	a system CPU;
23	memory;

1		at least one drive comprising compressed audio data; and
2		an audio controller coupled to said system CPU, memory and drive;
3		said audio controller being adapted to cause said drive to read said
4	compre	essed audio data, to cause said system CPU to decompress said compressed audio data
5	thereby	providing decompressed audio data, and to cause said decompressed audio data to be
6	stored	in said memory.
7		
8	21.	A computer system as claimed in claim 20, wherein said audio controller is further
9	adapted to	place said system CPU in standby state when said system CPU is not decompressing
10	said comp	ressed audio data.
11	22.	A computer system as claimed in claim 20, wherein said audio controller is further
12	adapted to	cause said decompressed audio data to be retrieved from said memory for playing.
13	23.	A computer system as claimed in claim 20, wherein said drive is a hard disk,
14	removable	e disk, floppy disk, magnetic storage medium, optical storage medium, or IDE device.
15	24.	A computer system as claimed in claim 20, wherein said compressed audio data is in
16	MP3, WM	IA, AAC, or other secured compressed audio format.
17	25.	A computer system as claimed in claim 20, further comprising at least one digital
18	computer	bus, wherein said audio controller is coupled to at least one of said system CPU,
19	memory,	and drive via said digital computer bus.
20	26.	A computer system as claimed in claim 20, further comprising a mini-OS.
21	27.	A computer system as claimed in claim 20, further comprising an LCD interface for
22	generatin	g signals to an LCD display for displaying song name, file/directory name and/or
23	timing da	uta.

- 1 28. A computer system as claimed in claim 20, further comprising a plurality of function
- 2 keys and a function key interface operable with said plurality of function keys, said function
- 3 keys generating user commands to said audio controller through said function key interface.
- 4 29. A computer system as claimed in claim 28, further comprising a software driver for
- 5 receiving interrupts generated by at least one of said plurality of function keys and for passing
- 6 said interrupts to said system CPU.
- 7 30. A computer system as claimed in claim 29, further comprising standard audio player
- 8 software, wherein said CPU utilizes said interrupts to control said standard audio player
- 9 software.
- 10 31. A computer system as claimed in claim 20, wherein said audio controller is adapted
- not to cause said drive to read said compressed audio data, nor to cause said system CPU to
- decompress said compressed audio data, nor to cause said decompressed audio data to be stored
- in said memory, unless said computer system is off, in hibernate mode, in suspend to HDD
- mode, or in one of power states S4 or S5.
- 15 32. A computer system as claimed in claim 20, wherein said audio controller is adapted
- not to cause said drive to read said compressed audio data, nor to cause said system CPU to
- decompress said compressed audio data, nor to cause said decompressed audio data to be stored
- in said memory, when said computer system is on, in sleep mode, in suspend to RAM mode, or
- in one of power states S0 or S3.
- 20 33. A computer system as claimed in claim 29, wherein said software driver is adapted
- 21 not to receive said interrupts generated by at least one of said plurality of function keys nor pass
- said interrupts to said system CPU, unless said computer system is on, in sleep mode, in suspend
- to RAM mode, or in one of power states S0 or S3.

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1	34.	A computer system as claimed in claim 20, wherein said compressed audio data is
2	stored in o	ne or more audio files on said drive, said computer system further comprising a play
3	list softwa	re program for creating and storing a play list comprising one or more said audio files.
4	35.	A computer system as claimed in claim 34, wherein said play list software program is
5	executable	only when said computer is on or in power state S0.
6	36.	A computer system as claimed in claim 35, wherein said audio controller is further
7	adapted to	cause said drive to read said compressed audio data based, at least in part, on said
8	stored play	y list.
9	37.	A computer system adapted to play audio files, said computer system comprising:
10		a system CPU;
11		memory;
12		at least one drive comprising compressed audio data, said compressed
13	audio	data residing in one or more audio files;
14		a play list software program for selecting a play list comprising one or
15	more	of said audio files; and
16		an audio controller coupled to said system CPU, memory and drive;
17		said audio controller being adapted to cause said drive to read at least one
18	said a	udio file of said play list, to cause said system CPU to decompress the compressed
19	audio	data of said file and thereby provide decompressed audio data, and to cause said
20	decon	npressed audio data to be stored in said memory.
21	38.	A method of playing audio files on a computer system, said method comprising:
22		reading compressed audio data from the drive of a computer system having at
23	least :	a drive, a CPU, and a memory;

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1	providing said compressed audio data to said CPU for decompressing said
2	compressed audio data, thereby providing decompressed audio data; and
3	storing said decompressed audio data in said memory.
4	39. A method of playing audio files on a computer system as claimed in claim 38, further
5	comprising placing said system CPU in a standby state when said system CPU is not
6	decompressing said compressed audio data.
7	40. A method of playing audio files on a computer system as claimed in claim 38, further
8	comprising retrieving said decompressed audio data from said memory for playing.
9	A method of playing audio files on a computer system as claimed in claim 38,
10	wherein said drive is a hard disk, removable disk, floppy disk, magnetic storage medium, optical
11	storage medium, flash media, or IDE device.
12	42. A method of playing audio files on a computer system as claimed in claim 38,
13	wherein said compressed audio data is in MP3, WMA, AAC, or other secured compressed audio
14	format.
15	43. A method of playing audio files on a computer system as claimed in claim 38, further
16	comprising generating signals to an LCD display for displaying song name, file/directory name
17	and/or timing data.
18	A method of playing audio files on a computer system as claimed in claim 38,
19	wherein said computer system further comprises a plurality of function keys, and wherein said
20	method further comprises receiving user commands generated by at least one of said plurality of

comprising receiving interrupts generated by at least one of said plurality of function keys and

function keys and utilizing said user commands to control said playing.

A method of playing audio files on a computer system as claimed in claim 38, further

- 1 passing said interrupts to said system CPU.
- 2 46. A method of playing audio files on a computer system as claimed in claim 38,
- 3 wherein said computer system further comprises standard audio player software, and wherein
- 4 said method further comprise utilizing said interrupts to control said standard audio player
- 5 software.
- 6 47. A method of playing audio files on a computer system as claimed in claim 38,
- 7 wherein said steps of reading compressed audio data from the drive of said computer system,
- 8 providing said compressed audio data to said CPU, and storing said decompressed audio data in
- 9 said memory, are not performed unless said computer system is off, in hibernate mode, in
- suspend to HDD mode, or in one of power states S4 or S5.
- 11 48. A method of playing audio files on a computer system as claimed in claim 20,
- wherein said steps of reading compressed audio data from the drive of said computer system,
- 13 providing said compressed audio data to said CPU for decompressing said compressed audio
- data into said decompressed audio data, and storing said decompressed audio data in said
- memory, are not performed when said computer system is on, in sleep mode, in suspend to RAM
- mode, or in one of power states S0 or S3.
- 17 49. A method of playing audio files on a computer system as claimed in claim 45,
- wherein said steps of receiving interrupts generated by at least one of said plurality of function
- 19 keys and passing said interrupts to said system CPU are not performed unless said computer
- system is on, in sleep mode, in suspend to RAM mode, or in one of power states S0 or S3.
- 21 50. A method of playing audio files on a computer system as claimed in claim 20,
- 22 wherein said compressed audio data is stored in one or more audio files on said drive, wherein
- 23 said method further comprises creating and storing a play list comprising one or more said audio

- 1 files.
- 2 51. A method of playing audio files on a computer system as claimed in claim 50,
- 3 wherein said step of creating and storing a play list is only performed when said computer is on
- 4 or in power state S0.
- 5 52. A method of playing audio files on a computer system as claimed in claim 51, further
- 6 comprising reading said compressed audio data from said drive based, at least in part, on said
- 7 play list.
- 8 53. A method of playing audio files on a computer system, said method comprising:
- g creating and storing a play list comprising a list of compressed audio files residing on
- one or more drives of a computer system having at least a drive, a CPU, and a memory;
- reading said play list;
- reading said compressed audio files from said drive based on said play list;
- providing said compressed audio data to said CPU for decompressing the data of said
- 14 compressed audio file into decompressed audio data;
- storing said decompressed audio data in said memory; and
- retrieving said decompressed audio data from said memory for playing.
- 17 54. A method of playing audio files on a computer system, said method comprising:
- when said computer system is on, in sleep mode, in suspend to RAM mode, or in one
- of power states S0 or S3, creating and storing a play list comprising a list of compressed audio
- 20 files residing on one or more drives of a computer system having at least a drive, a CPU, and a
- 21 memory; and
- when said computer system is off, in hibernate mode, in suspend to HDD mode, or in one
- of power states S4 or S5, playing the compressed audio files of said play list.

1	A method of playing audio mes on a computer system, said method comprising.
2	when said computer system is on, in sleep mode, in suspend to RAM mode, or in one
3	of power states S0 or S3, creating and storing a play list comprising a list of compressed audio
4	files residing on one or more drives of a computer system having at least a drive, a CPU, and a
5	memory;
6	when said computer system is off, in hibernate mode, in suspend to HDD mode, or in
7	one of power states S4 or S5, reading said play list;
8	when said computer system is off, in hibernate mode, in suspend to HDD mode, or in
9	one of power states S4 or S5, reading said compressed audio files from said drive based on said
10	play list;
11	when said computer system is off, in hibernate mode, in suspend to HDD mode, or in
12	one of power states S4 or S5, providing said compressed audio data to said CPU for
13	decompressing the data of said compressed audio file into decompressed audio data;
14	when said computer system is off, in hibernate mode, in suspend to HDD mode, or in
15	one of power states S4 or S5, storing said decompressed audio data in said memory; and
16	when said computer system is off, in hibernate mode, in suspend to HDD mode, or in
17	one of power states S4 or S5, retrieving said decompressed audio data from said memory for
18	playing.
19	A method of playing audio files on a computer system, said method comprising:
20	reading compressed audio data from the drive of a computer system, said computer
21	system having at least a drive, a CPU, and a memory;
22	providing said compressed audio data to said CPU for decompressing said compressed
23	audio data into decompressed audio data;

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1	storing said decompressed audio data in said memory; and
2	playing said decompressed audio data from said memory.
3	57. A computer system adapted to play audio files, said computer system comprising:
4	a system CPU;
5	memory;
6	at least one drive comprising compressed audio data, said compressed audio data
7	residing in one or more audio files;
8	a play list software program for selecting and storing a play list comprising one or
9	more of said audio files; and
10	an audio controller coupled to said system CPU, memory and drive;
11	said audio controller being adapted to retrieve said play list and cause said drive to
12	read at least one said audio file of said play list, to cause said system CPU to decompress the
13	compressed audio data of said file and provide decompressed audio data, to cause said
14	decompressed audio data to be stored in said memory, and to cause said decompressed audio
15	data to be played from said memory.
16	